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ERICSSON INC.  
6300 LEGACY DRIVE  
M/S EVR 1-C-11  
PLANO, TX 75024

EXAMINER
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TAYLOR, BARRY W

ART UNIT	PAPER NUMBER
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2617

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06/17/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Continuation Sheet (PTO-303)**

1. The Examiner reviewed Applicant's remarks and amendments to claims which change the scope of the claims requiring further search and/or consideration.
2. Applicants argue that Bhaumick discloses an alternative to the known paging methods as stated in 3GPP TS 25.305 together with the base mechanism for MAP-ATI (Any Time Interrogation) and MAP -PSI (provide subscriber information) 3GPP TS 23.078 and 29.002. MAP-PSI is used by the HLR to send a request to a MSC for an update of specific data of a mobile station. By including active an paging parameter in MAP-PSI the MSC will measure the MS position by means of one of the methods stated in 3GPP 25.305 and report back to the HLR. Basic for all methods is that the mobile station transmits, which enables the mobile network to measure the MS position. This is also what Bhaumick basically does, causing the MS to transmit without user intervention only now with an alternative method not described in the standard. Note that the standard defined way is also fully automatic and does not require user intervention. Bhaumick uses an USSD message (or SMS or MMS) including an error causing the MS to automatically reply with an error report. Transmitting the report the mobile network can now measure the position of the mobile station. Bhaumick discloses in paragraph [0008] that the base station stores the location measured when the error report is transmitted. After that, standard mechanisms are used as available and as indicated in paragraph [0008], no other modifications are required to MS, HLR or VLR. For base station MSC this is included in the BTAP protocol. From MSC to HLR/VLR this is MAP-PSI. It should be noted that when requesting MAP-PSI by the HLR a parameter can be

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set for regular update or update when changed, causing the MSC to report when ever location data is changed.

A person skilled in the art attempting to combine both teachings would likely avoid the MS including position information in the USSD message being sent to the handling service. If the service is in a separate service handler MAP-ATI can be used towards an HLR to get the position information. The Applicant respectfully submits that the MSC does not include position data in a USSD service request message passing through it.

The Examiner notes that Applicants independent claims are extremely vague and do not require the use of a Mobile Switching Center. Furthermore, Bhaumick teaches the location of the Mobile is determined based on the individual cells of base stations (paragraph 0008) wherein the base station and/or node of the cell in which the mobile is situated at the time updates and stores the location of the mobile. **Bhaumick at paragraph 0008 lines 37-45 teaches the advantage of updating and storing location information of the mobile at the base station or node is that the entry of location information in a central database can be updated.** Bhaumick is very clear that location information in the mobile radio network is updated periodically by means of the data message (paragraph 0009). **Bhaumick at paragraph 0014 reveals the location information of the mobile is updated and stored in the HLR by means of USSD, SMS, or MMS.** **Bhaumick at paragraph 0016 reveals that the location information of the mobile is updated and stored in the home location register and/or VLR by means of USSD, SMS, or MMS message.** Bhaumick even teaches

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using SMS messages to obtain the current cell ID and the cell ID is updated in the

**MSCNLR** (paragraph 0021).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry W. Taylor, telephone number (571) 272-7509, who is available Monday-Thursday, 6:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost, can be reached at (571) 272-7023. The central facsimile phone number for this group is **571-273-8300**.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 2600 receptionist whose telephone number is (571) 272-2600, the 2600 Customer Service telephone number is (571) 272-2600.

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/Barry W Taylor/

Primary Examiner, Art Unit 2617